

2021 Curlyleaf Pondweed & Eurasian Watermilfoil Surveys

Harrisons Bay (*Lake Minnetonka, #27-0133*)
Hennepin County, MN

Surveyed June 2 & September 2 , 2021



Survey, Analysis, and Reporting by:

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Certified Lake Manager
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Purpose of Survey

These surveys were conducted to document the distribution and abundance of curlyleaf pondweed (CLP) and Eurasian watermilfoil (EWM) growing in Harrisons Bay (Lake Minnetonka, #27-0133). Results from these surveys will help guide management decisions and will be required for DNR permits for aquatic plant control.

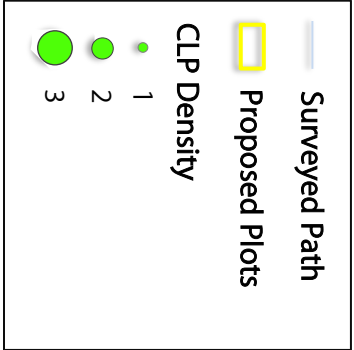
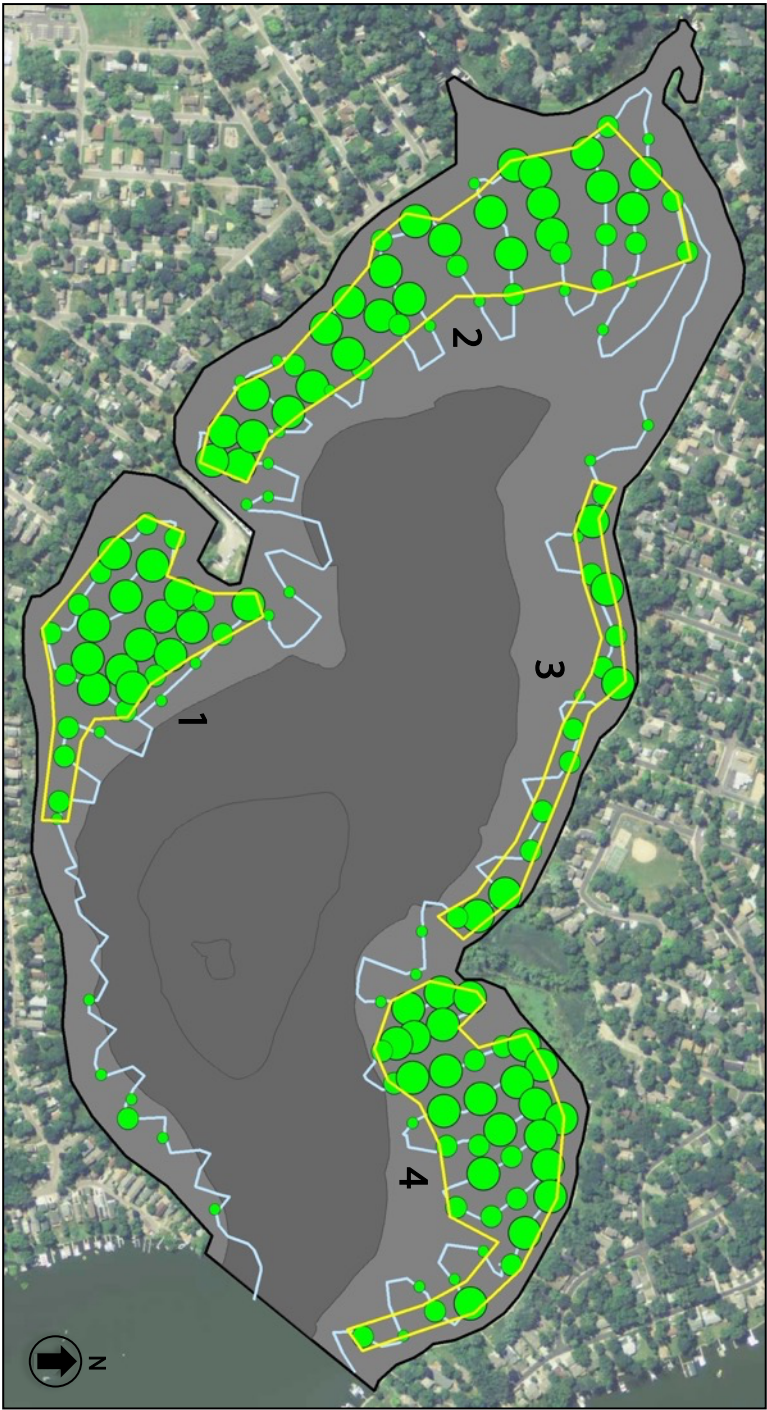
Survey Method

Delineation Surveys

Freshwater Scientific Services surveyed the vegetated portion of Harrisons Bay on June 2 and Sept 2, 2021 (eastern boundary of bay extended for Sept survey). During each of these surveys, we navigated a meandering path through the search areas while using a combination of surface observations, sonar readings, and rake tosses to locate and delineate any areas of CLP and EWM growth. We used a hand-held Garmin GPS unit (GPS-MAP78) to record each of the locations where we encountered CLP or EWM, and also documented water depth and growth density (density rating; 1 to 3 scale as described below). The recorded water depths and plant densities were linked to the appropriate GPS locations and then mapped using desktop GIS software.

Score	Visual	Rake
1	Light / Solitary plants	1-2 stems
2	Moderate / Scattered dense patches	3 to 9 stems
3	Dense / Uniform dense growth	10+ stems

Harrison's Bay (*Lake Minnetonka, #27-0133*)
Curlyleaf Pondweed Delineation: 2021



Plot	Area (acres)	Avg Depth (ft)	Avg CLP Density (1-3)
1	9.0	4.7	2.5
2	16.9	5.3	2.5
3	4.1	5.8	2.2
4	11.7	5.4	2.6

Total 41.7 acres

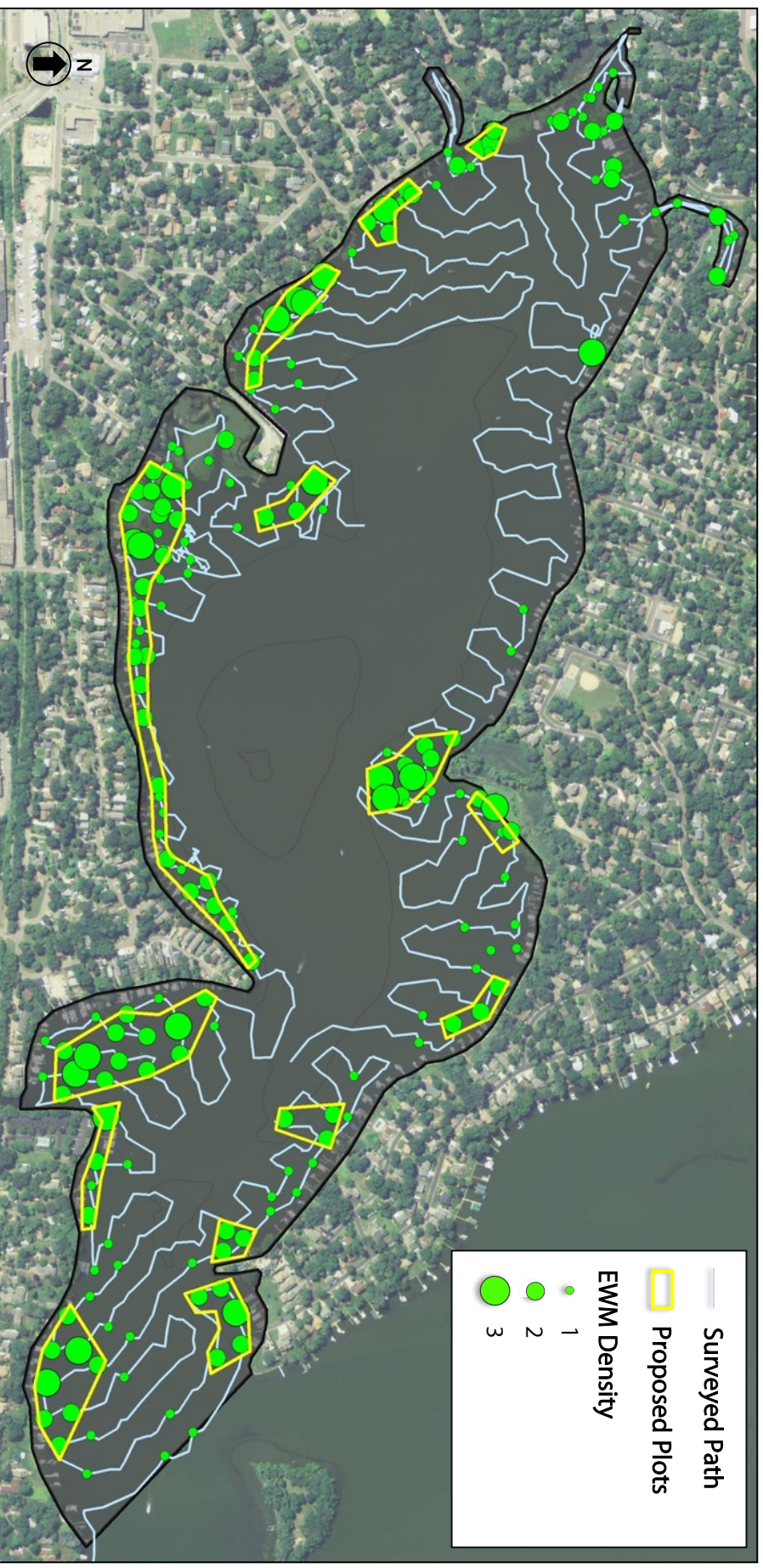
Surveyed: June 2, 2021
Surveyor: JA Johnson
Methods: Visual, Rake, Sonar
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Map produced for the
Lake Minnetonka Association

15771 Creekside Lane
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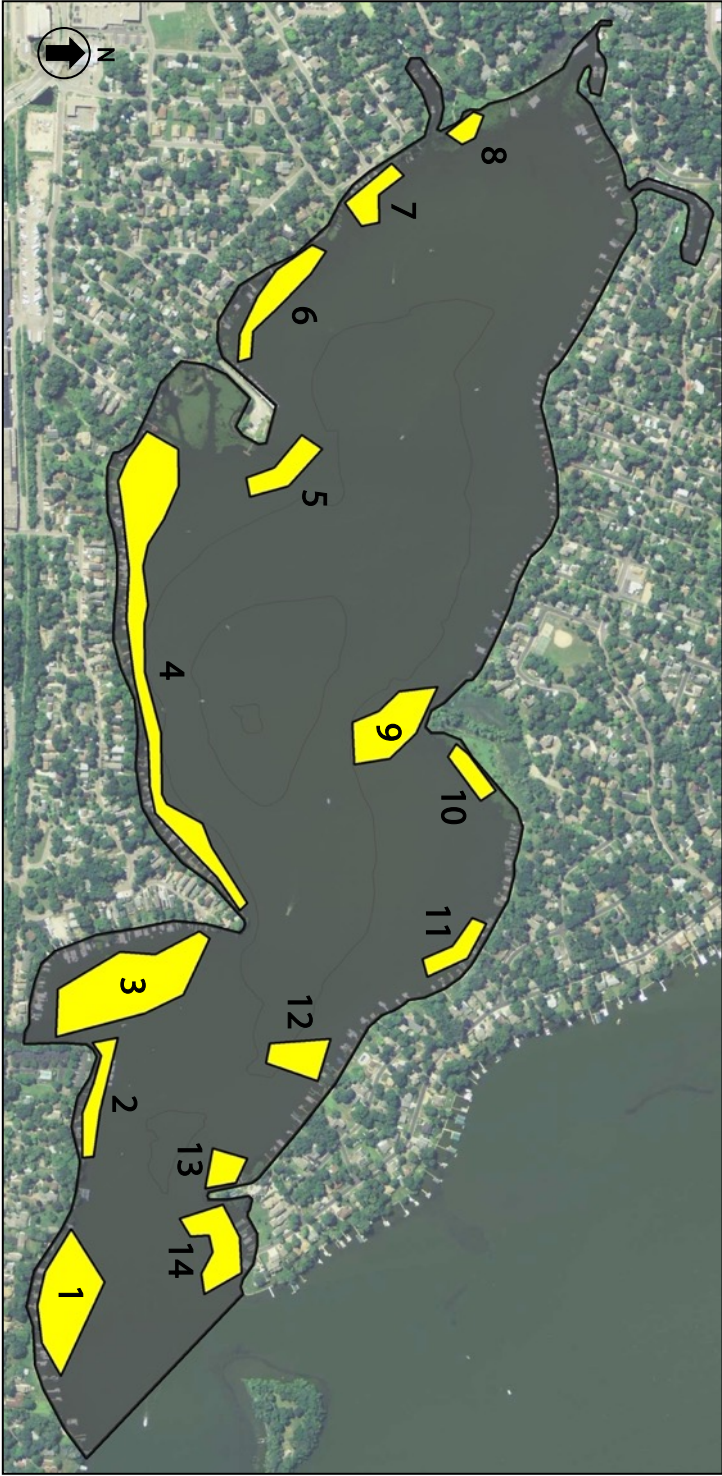
Harrison's Bay *(Lake Minnetonka, #27-0133)*

Eurasian Watermilfoil Delineation: 2021



Surveyed: Sept 2, 2021
Surveyor: JA Johnson
Methods: Visual, Rake, Sonar
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Harrison's Bay (*Lake Minnetonka, #27-0133*)
Eurasian Watermilfoil Delineation: 2021



 **Proposed Plots**

Plot	Area (acres)	Avg Depth (ft)	Avg EWM Density (1-3)
1	3.4	3.9	2.3
2	1.1	5.1	2.0
3	5.1	4.6	2.2
4	6.8	4.4	1.8
5	1.1	5.8	2.3
6	1.7	3.4	2.6
7	0.9	2.8	2.0
8	0.4	1.9	1.8
9	2.3	3.2	2.2
10	0.6	2.3	2.0
11	0.8	3.6	2.0
12	1.1	5.2	2.0
13	0.7	4.7	2.0
14	1.8	4.1	2.2

Total 27.8 acres

Surveyed: Sept 2, 2021
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Online Resources & Contacts

Minnesota Administrative Rules for Aquatic Plant Management

<https://www.revisor.mn.gov/rules/?id=6280>

Minnesota DNR – Aquatic Plant Management Regulations & Permit Application Forms

<http://www.dnr.state.mn.us/apm/index.html>

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